

---

DOCUMENT A00830

**ARMY CORPS OF ENGINEERS**  
**GENERAL PERMIT**  
**AND APPLICATION**

---

THIS PAGE IS INTENTIONALLY LEFT BLANK



**DEPARTMENT OF THE ARMY**  
US ARMY CORPS OF ENGINEERS  
NEW ENGLAND DISTRICT  
696 VIRGINIA ROAD  
CONCORD MA 01742-2751

March 19, 2014

Regulatory Division  
File Number: NAE-2013-02144

Ms. Susan McArthur, Wetlands Unit Supervisor  
Massachusetts Department of Transportation – Highway Division  
10 Park Plaza, Suite 4260  
Boston, Massachusetts 02116

Dear Ms. McArthur:

We have reviewed your application to discharge fill material into 13,798 ft<sup>2</sup> (0.30 acre) of emergent wetlands in order to extend the existing MBTA Silver Line Bus Rapid Transit Line from South Station and the Boston Seaport District to Chelsea and East Boston, MA. This project is located in unnamed wetlands on the former Grand Junction Railroad right-of-way between Cottage Street and Library Street, Chelsea, Massachusetts. The work is shown on the enclosed plans entitled "SILVER LINE GTATEWAY, CHELSEA, MA, SUFFOLK COUNTY", on 9 sheets, and dated "FEB. 2014".

Based on the information you have provided, we have determined that the proposed activity, which includes a discharge of dredged or fill material into waters or wetlands, will have only minimal individual or cumulative environmental impacts on waters of the United States, including wetlands. Therefore, this work is authorized as a Category 2 activity under the enclosed Federal permit known as the Massachusetts General Permit (GP). This work must be performed in accordance with the terms and conditions of the GP and also in compliance with the following special condition(s):

1. In order to ensure that the vegetated swales/bioretention areas replace on-site water quality functions of the existing wetlands, a Vegetated Swale/Bioretention Basin Construction Report must be forwarded to this office by December 31 in the year of completion of all construction activities, or by an approved extension. For purposes of this special condition, "completion" means all activities associated with site grading, seeding, planting and/or transplanting. The construction report must include the following:
  - a. An "as-built" plan view which includes a topographic survey of the vegetated swale areas/bioretention basins at 0.5 foot contour intervals, and with respect to the transportation corridor and multiple-use trail.
  - b. Photographs from fixed locations, along with a photo-location map.
  - c. A list of plants introduced through seeding and/or planting.
  - d. Water depth and date of measurement from representative locations within the construction area. The sample points will be fixed locations and shall be plotted on the photo-location map.

e. A list of any modifications that were made from the original plan.

2. Except where stated otherwise, reports, drawings, correspondence and any other submittals required by this permit shall be marked with the words "Permit No. NAE-2013-02144" and shall be submitted via: a) MAIL: PATS Branch - Regulatory Division, Corps of Engineers, New England District, 696 Virginia Road, Concord, MA 01742-2751, or b) FAX: (978) 318-8303. Documents which are not marked and addressed in this manner may not reach their intended destination and do not comply with the requirements of this permit. Requirements for immediate notification to the Corps shall be done by telephone to (978) 318-8338.

You are responsible for complying with all of the GP's requirements. Please review the enclosed GP carefully, in particular the GP conditions beginning on Page 6, to familiarize yourself with its contents. You should ensure that whoever does the work fully understands the requirements and that a copy of the permit document and this authorization letter are at the project site throughout the time the work is underway.

This determination becomes valid only after the Massachusetts Department of Environmental Protection (MassDEP) issues or waives Water Quality Certification (WQC) as required under Section 401 of the Clean Water Act. In the event the MassDEP denies the 401 WQC, this determination becomes null and void. The address of the MassDEP Regional office for your area is provided in the enclosed GP.

Your project is located within, or may affect resources within the coastal zone. The Massachusetts Office of Coastal Zone Management (CZM) has already determined that no further Federal Consistency Review is required.

This GP expires on January 20, 2015. Activities authorized under this GP that have commenced (i.e., are under construction) or are under contact to commence before this GP expires will have until January 21, 2016 to complete the activity under the terms and general conditions of the current GP. For work within Corps jurisdiction that is not completed by January 21, 2016, you will need to reference any reissued GP to see if your project is still authorized under Category 1 (no application required), or Category 2 (application required). If it is no longer authorized you must submit an application and receive written authorization before you can continue work within our jurisdiction. Please contact us immediately if you change the plans or construction methods for work within our jurisdiction. This office must approve any changes before you undertake them.

This authorization requires you to complete and return the enclosed Work Start Notification Form(s) to this office at least two weeks before the anticipated starting date. You must also complete and return the enclosed Compliance Certification Form within one month following the completion of the authorized work and any required mitigation (but not mitigation monitoring, which requires separate submittals).

This authorization presumes that the work as described above and as shown on your plans noted above is in waters of the U.S. Should you desire to appeal our jurisdiction, submit a request for an approved jurisdictional determination in writing to this office.

This permit does not obviate the need to obtain other federal, state, or local authorizations required by law, as listed on Page 2 of the GP. Performing work not specifically authorized by this determination or failing to comply with any special condition(s) provided above or all the terms and conditions of the GP may subject you to the enforcement provisions of our regulations.

We continually strive to improve our customer service. In order for us to better serve you, we would appreciate your completing our Customer Service Survey located at [http://corpsmapu.usace.army.mil/cm\\_apex/f?p=regulatory\\_survey](http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey).

Please contact Alan Anachecka-Nasemann, of my staff, at 978-318-8214, or via e-mail at: [alan.r.anachecka-nasemann@usace.army.mil](mailto:alan.r.anachecka-nasemann@usace.army.mil) if you have any questions.

Sincerely,



Robert J. DeSista  
Acting Chief, Regulatory Division

Enclosures

Copies Furnished:

Ed Reiner, U.S. EPA, Region 1, Boston, Massachusetts, [reiner.ed@epa.gov](mailto:reiner.ed@epa.gov)  
Christopher Ross, DEP SERO, Wetlands and Waterways, Lakeville, Massachusetts,  
[Christopher.Ross@state.ma.us](mailto:Christopher.Ross@state.ma.us)

Robert Boeri, Coastal Zone Management, Boston, Massachusetts, [Robert.Boeri@state.ma.us](mailto:Robert.Boeri@state.ma.us)  
Chelsea Conservation Commission, City Hall, 500 Broadway, Room #101-104, Chelsea, MA  
02150  
Thomas Keough, AECOM, Chelmsford, MA, [Thomas.Keough@aecom.com](mailto:Thomas.Keough@aecom.com)



**US Army Corps  
of Engineers®**  
New England District

**GENERAL PERMIT**  
**WORK-START NOTIFICATION FORM**  
(Minimum Notice: Two weeks before work begins)

\*\*\*\*\*  
\* MAIL TO: U.S. Army Corps of Engineers, New England District \*  
\* Permits and Enforcement Branch \*  
\* Regulatory Division \*  
\* 696 Virginia Road \*  
\* Concord, Massachusetts 01742-2751 \*  
\*\*\*\*\*

Corps of Engineers Permit No. **NAE-2013-02144** was issued to **MassDOT – Highway Division**, on **March 19, 2014**. This work is located in **unnamed wetlands at the former Grand Junction Railroad Right of Way between Cottage Street and Library Street, Chelsea, Massachusetts**. The permit authorized the permittee to **discharge fill material into 13,798 ft<sup>2</sup> (0.30 acre) of emergent wetlands in order to extend the existing MBTA Silver Line Bus Rapid Transit Line from South Station and the Boston Seaport District to Chelsea and East Boston, MA**.

The people (e.g., contractor) listed below will do the work, and they understand the permit's conditions and limitations.

**PLEASE PRINT OR TYPE**

**Name of Person/Firm:** \_\_\_\_\_

**Business Address:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Telephone Numbers:** ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

**Proposed Work Dates:** **Start:** \_\_\_\_\_ **Finish:** \_\_\_\_\_

**Permittee/Agent Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Printed Name:** \_\_\_\_\_ **Title:** \_\_\_\_\_

**Date Permit Issued:** \_\_\_\_\_ **Date Permit Expires:** \_\_\_\_\_

**FOR USE BY THE CORPS OF ENGINEERS**

**PM:** Anacheka-Nasemann **Submittals Required:** YES

**Inspection Recommendation:** \_\_\_\_\_  
\_\_\_\_\_



**US Army Corps  
of Engineers®**  
New England District

(Minimum Notice: Permittee must sign and return notification  
within one month of the completion of work.)

## COMPLIANCE CERTIFICATION FORM

**Permit Number:** NAE-2013-02144

**Project Manager:** Anacheka-Nasemann

**Name of Permittee:** MassDOT – Highway Division

**Permit Issuance Date:** March 19, 2014

Please sign this certification and return it to the following address upon completion of the activity and any mitigation required by the permit. You must submit this after the mitigation is complete, but not the mitigation monitoring, which requires separate submittals.

\*\*\*\*\*  
\* MAIL TO: U.S. Army Corps of Engineers, New England District \*  
\* Permits and Enforcement Branch A \*  
\* Regulatory Division \*  
\* 696 Virginia Road \*  
\* Concord, Massachusetts 01742-2751 \*  
\*\*\*\*\*

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

**I hereby certify that the work authorized by the above referenced permit was completed in accordance with the terms and conditions of the above referenced permit, and any required mitigation was completed in accordance with the permit conditions.**

---

Signature of Permittee

---

Date

---

Printed Name

---

Date of Work Completion

---

(      )  
Telephone Number

---

(      )  
Telephone Number



Portion of Boston North and Boston South  
1:25000 USGS quadrangles.

Source: Esri

Figure 1  
Project Locus Map  
Chelsea, Massachusetts

October 2013

# MASSACHUSETTS DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF

## SILVER LINE GATEWAY

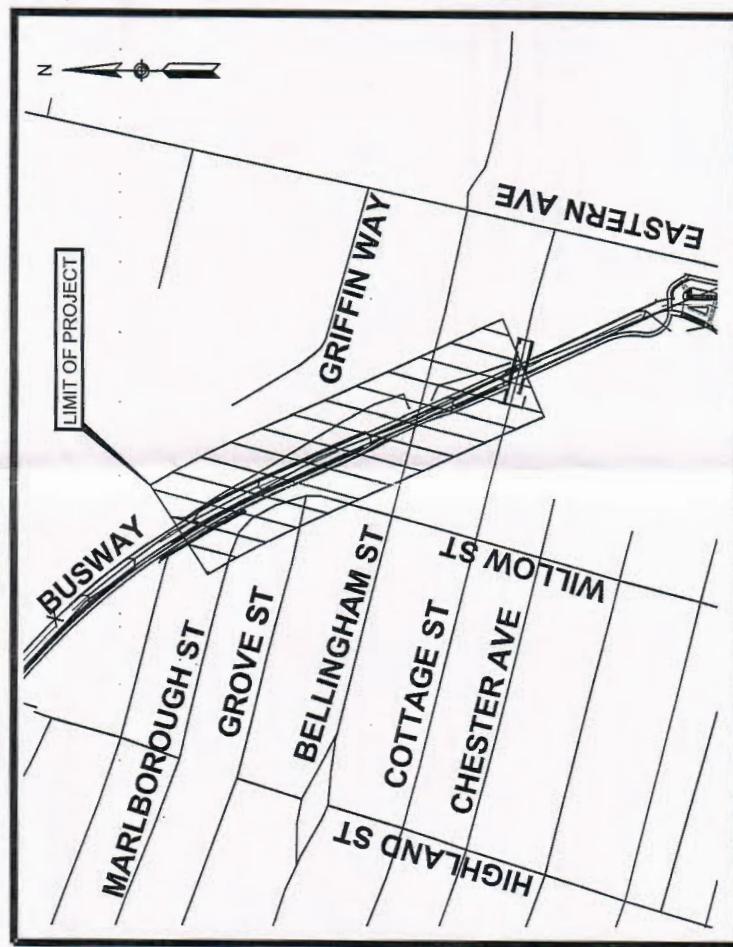
IN THE CITY OF

CHELSEA

SUFFOLK COUNTY

FEDERAL AID PROJECT NO.

## SECTION 401/404 PERMIT APPLICATION PLANS



0 250 500 750 1000  
SCALE: 1" = 500'

APPROXIMATE LENGTH OF PROJECT = 1.3 MILES

DATE: FEBRUARY 2014

INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2	LEGEND & GENERAL NOTES
3-5	CONSTRUCTION DETAIL PLAN
6-7	EXISTING CONDITION PLAN
8-9	PROPOSED SITE PLAN

## GENERAL NOTES

- THE EXISTING CONDITIONS SHOWN ON THIS BASEMAP ARE THE RESULT OF AN AERIAL MAPPING SURVEY PERFORMED BY THE SANBORN MAP COMPANY, INC. AS FLOWN ON SATURDAY SEPTEMBER 28, 2013 AND AN ON THE GROUND INSTRUMENT SURVEY PERFORMED BETWEEN OCTOBER 25, 2013 AND JANUARY 9, 2014 BY GREEN INTERNATIONAL AFFILIATES, INC. PORTIONS OF WASHINGTON AVENUE WERE SURVEYED BY RICHARD F. KAMINSKI & ASSOCIATES, INC. IN MARCH OF 2006. GREEN INTERNATIONAL AFFILIATES, INC. HAS UPDATED THIS INFORMATION TO REFLECT RECONSTRUCTION ON WASHINGTON AVENUE NORTH OF THE RAILROAD CROSSING.
- HORIZONTAL DATUM IS MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD83) ESTABLISHED BY GPS METHODS. VERTICAL DATUM IS NAVD88 ESTABLISHED BY GPS METHODS.
- WETLANDS WERE DELINEATED BY AECOM IN OCTOBER 2013 IN ACCORDANCE WITH USACOE AND MASSDEP PROCEDURES AND FIELD LOCATED BY GREEN INTERNATIONAL AFFILIATES, INC ON NOVEMBER 5 & 6 2013.
- THE RIGHT OF WAY LINES SHOWN ON THIS PLAN ARE THE DIRECT RESULT OF AN INSTRUMENT SURVEY PERFORMED ON THE GROUND BY GREEN INTERNATIONAL AFFILIATES, INC. WITH AN ERROR OF CLOSURE LESS THAN 1:10,000, AND FROM PLANS AND DEEDS OF RECORD. PRIVATE PROPERTY LINES ARE FROM GIS INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE.
- THE CONTRACTOR SHALL INSTALL COMPOST FILTER TUBES AT THE BOTTOM OF SLOPE PRIOR TO START OF CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
- DISTURBED UNPAVED SURFACES WITHIN THE PROJECT LIMITS SHALL BE TOPSOILED & SEEDED.
- AREAS OUTSIDE THE LIMIT OF WORK DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL MAINTAIN EXISTING UTILITY SERVICES TO ABUTTING PROPERTIES DURING CONSTRUCTION.

GENERAL SYMBOLS		DESCRIPTION	
EXISTING	PROPOSED	EXISTING	PROPOSED
		JERSEY BARRIER ON BRIDGE OR JERSEY BARRIER	
		CATCH BASIN	
		CATCH BASIN CURB INLET	
		FLAG POLE	
		GAS PUMP	
		MAIL BOX	
		POST SQUARE	
		POST CIRCULAR	
		WELL	
		ELECTRIC HANDHOLE	
		FENCE GATE POST	
		GAS GATE	
		BORING HOLE	
		MONITORING WELL	
		TEST PIT	
		HYDRANT	
		LIGHT POLE	
		COUNTY BOUND	
		GPS POINT	
		CABLE MANHOLE	
		DRAINAGE MANHOLE	
		ELECTRIC MANHOLE	
		GAS MANHOLE	
		MISC MANHOLE	
		SEWER MANHOLE	
		TELEPHONE MANHOLE	
		WATER MANHOLE	
		MASSACHUSETTS HIGHWAY BOUND	
		MONUMENT	
		STONE BOUND	
		TOWN OR CITY BOUND	
		TRAVERSE OR TRIANGULATION STATION	
		TROLLEY POLE OR GUY POLE	
		TRANSMISSION POLE	
		UTILITY POLE W FIREBOX	
		UTILITY POLE W/ DOUBLE LIGHT	
		UTILITY POLE W/ 1 LIGHT	
		UTILITY POLE	
		BUSH	
		TREE	
		STUMP	
		SWAMP / MARSH	
		WATER GATE	
		PARKING METER	
		OVERHEAD CABLE/WIRE	
		CURBING	
		CONTOURS	
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)	
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)	
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)	
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)	
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)	
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)	
		BALANCE STONE WALL	
		GUARD RAIL - STEEL POSTS	
		CHAIN LINK OR METAL FENCE	
		WOOD FENCE	
		HAY BALES/TILT FENCE	
		SAWCUT LINE	
		TOP OR BOTTOM OF SLOPE	
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY	
		BANK OF RIVER OR STREAM	
		BORDER OF WETLAND	
		100 FT WETLAND BUFFER	
		200 FT RIVERFRONT BUFFER	
		STATE HIGHWAY LAYOUT	
		TOWN OR CITY LAYOUT	
		COUNTY LAYOUT	
		RAILROAD SIDELANE	
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE EASEMENT	

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION	SILVER LINE GATEWAY	CHELSEA, MA	SUFFOLK COUNTY
APPLICATION BY: MASSACHUSETTS DEPARTMENT OF TRANSPORTATION PREPARED BY: AECOM, 250 APOLLO DRIVE, CHELMSFORD, MA 01824	LEGEND & GENERAL NOTES	GN-1	SHEET 2 OF 9



PLANTING LIST: BIORETENTION BASIN

<u>SHRUBS</u>		<u>COMMON NAME</u>	<u>HEIGHT/SPREAD</u>	<u>INSTALL SIZE</u>	<u>SPACING</u>
<u>BOTANICAL NAME</u>					
<i>CLETHRA ALNIFOLIA</i>		SWEET PEPPERMINT	10 FT X 8 FT	2 - 3 FT	5 FT O.C.
<i>CORNUS AMOMUM</i>		SILKY DOGWOOD	6 FT X 6 FT	18" - 24"	4 FT O.C.
<i>MYRICA PENNSYLVANICA</i>		BAY BERRY	8 FT X 8 FT	2 - 3 FT	5 FT O.C.
<i>SAMBUCUS CANADENSIS</i>		ELDERBERRY	10 FT X 10 FT	2 - 3 FT	8 FT O.C.
<i>VIBURNUM CASSINOIDES</i>		WITHEROD VIBURNUM	8 FT X 8 FT	18" - 24"	5 FT O.C.

## HERBACEOUS PLANTS

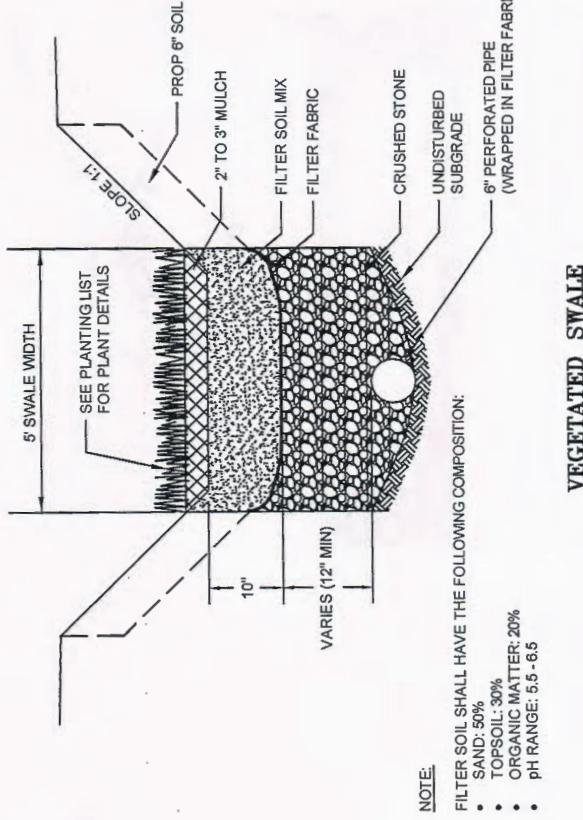
HERBACEOUS PLANTS		COMMON NAME	HEIGHT	SEED MIX	SPREAD SEED THROUGHOUT LIMITS OF BIORETENTION BASIN(S)
BOTANICAL NAME					
<i>ASCLEPIAS TUBEROSA</i>	BUTTERFLY MILKWEED	24 IN X 24	ULYMBUS		
<i>ASTER NOVA-ANGELAE</i>	NEW ENGLAND ASTER	4 FT X 36	CAREX		
<i>COMPTONIA PEREGRINA</i>	SWEET FERN	3 FT X 54	SCHIZAEC		
<i>EUPATORIUM PURPUREUM</i>	JOE PYE WEED	6 FT X 36	PANICUL		
<i>LOBELIA CARDINALIS</i>	CARDINAL FLOWER	3 FT X 24	AGROSTIS		
<i>PANICUM VIRGATUM</i>	SWITCHGRASS	6 FT X 36	JUNCUS		
<i>RUDBECKIA LACINIATA</i>	CONEFLOWER	6 FT X 36	AGROSTIS		
<i>SOLIDAGO SEMPERVIRENS</i>	GOLDENROD	4 FT X 36	JUNCUS		

CEED MAY

4(S) ULYMUS  
CAREX  
SCHIZA  
PANICU  
AGROST  
JUNCUS  
AGROST  
JUNCUS

### RIP-RAP SLOPE DETAIL

**NOTE:** RIP-RAP SLOPE SHALL BE INSTALLED IN ACCORDANCE WITH MASSDOT DRAWING 2.4.1 OF THE BRIDGE MANUAL STANDARD SPECIFICATIONS ITEM 983, AND MATERIALS SHALL MEET THE REQUIREMENTS AS SPECIFIED IN SUBSECTION M202.2.



NOT ENOB CONSTITUTION

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION

**SILVER LINE GATEWAY**

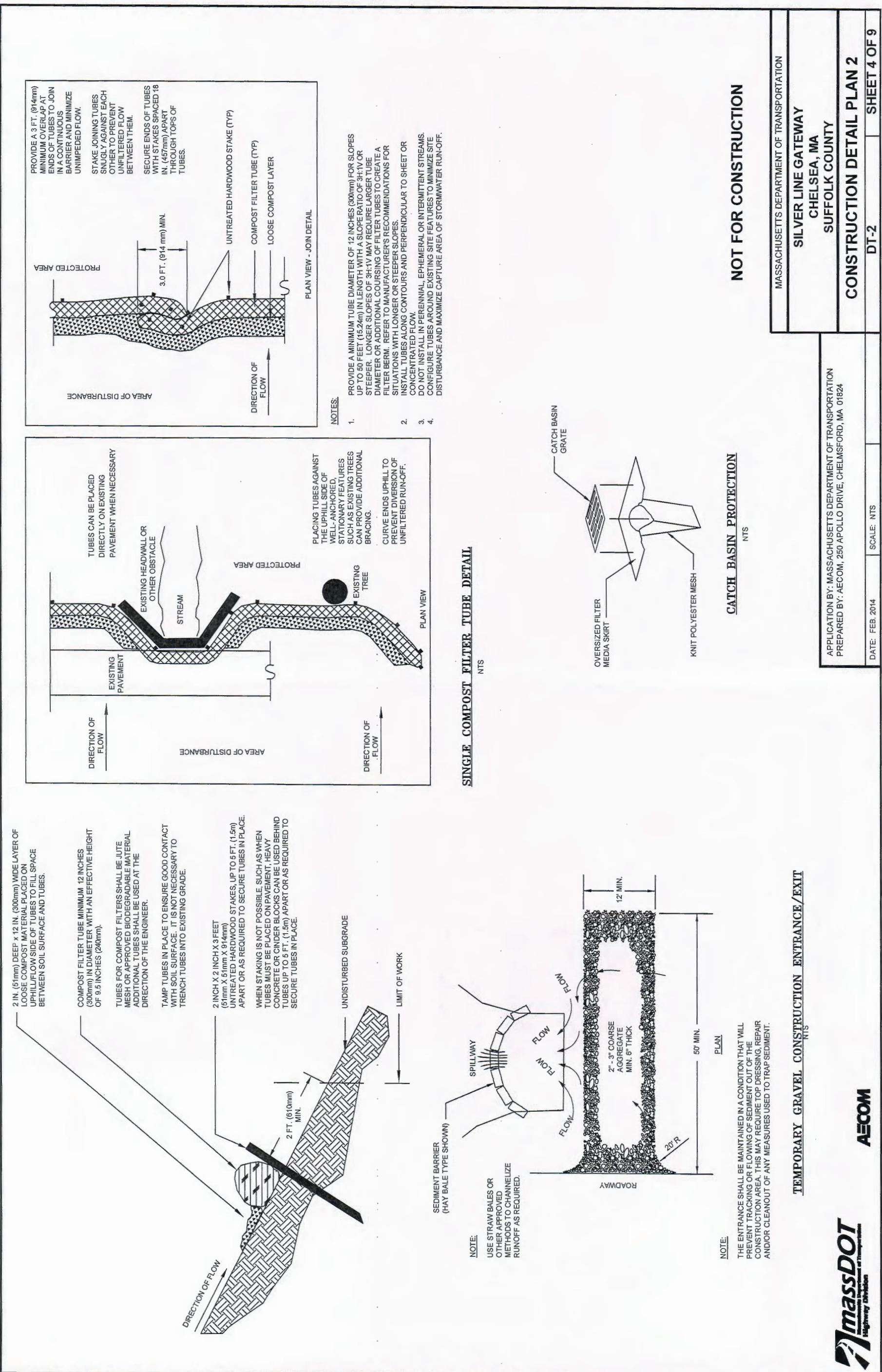
**CHELSEA, MA**

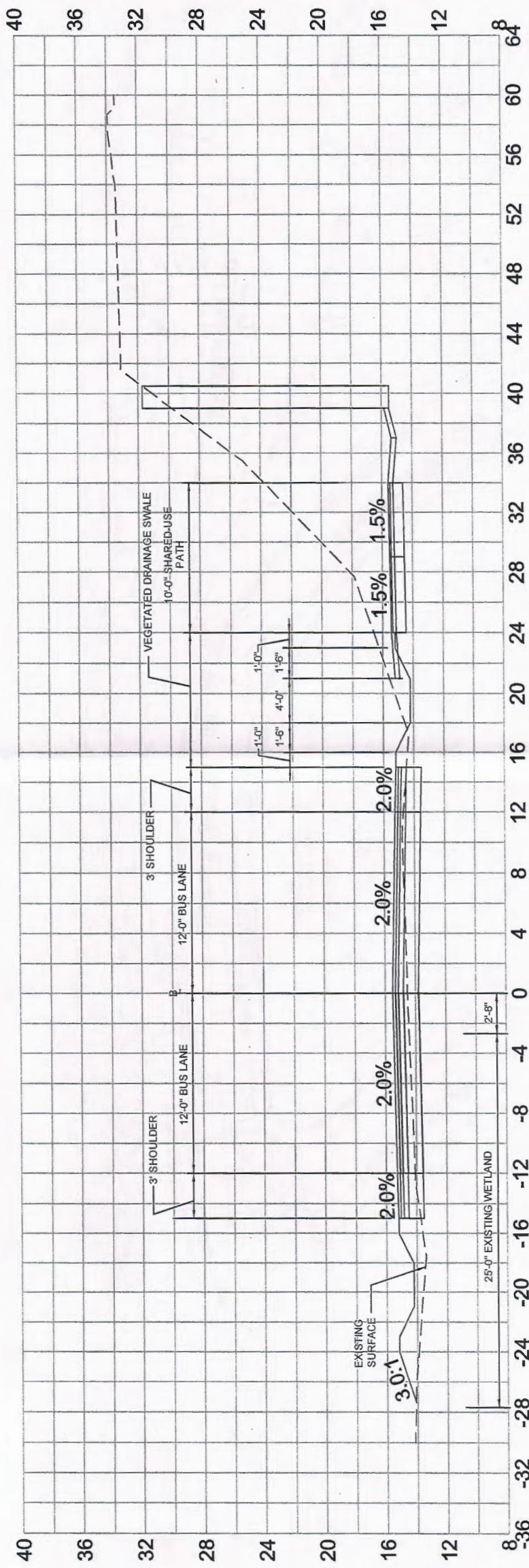
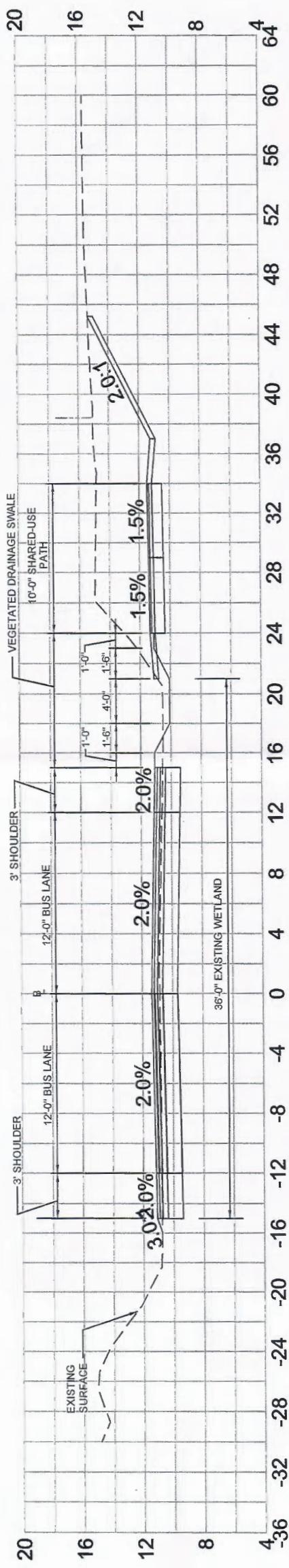
**SUFFOLK COUNTY**

# CONSTRUCTION DETAIL PLAN 1

102

100





NOT FOR CONSTRUCTION

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION  
SILVER LINE GATEWAY  
CHELSEA, MA  
SUFFOLK COUNTY

CONSTRUCTION DETAIL PLAN 2

SHEET 5 OF 9

APPLICATION BY: MASSACHUSETTS DEPARTMENT OF TRANSPORTATION  
PREPARED BY: AECOM, 250 APOLLO DRIVE, CHELMSFORD, MA 01824

DATE: FEB. 2014 SCALE: AS SHOWN

HOR. SCALE IN FEET  
0 4 8  
4 0 4 8  
VER. SCALE IN FEET  
0 4 8  
4 0 4 8

WILL PLOT TO SCALE ON 11"X17" FORMAT

AECOM  
massDOT  
Highway Division

